



Office de la Propriété  
Intellectuelle  
du Canada

Un organisme  
d'Industrie Canada

Canadian  
Intellectual Property  
Office

An agency of  
Industry Canada

CA 2445810 A1 2004/06/30

(21) 2 445 810

(12) DEMANDE DE BREVET CANADIEN  
CANADIAN PATENT APPLICATION

(13) A1

(22) Date de dépôt/Filing Date: 2003/10/21

(41) Mise à la disp. pub./Open to Public Insp.: 2004/06/30

(30) Priorité/Priority: 2003/09/15 (10/661,442) US

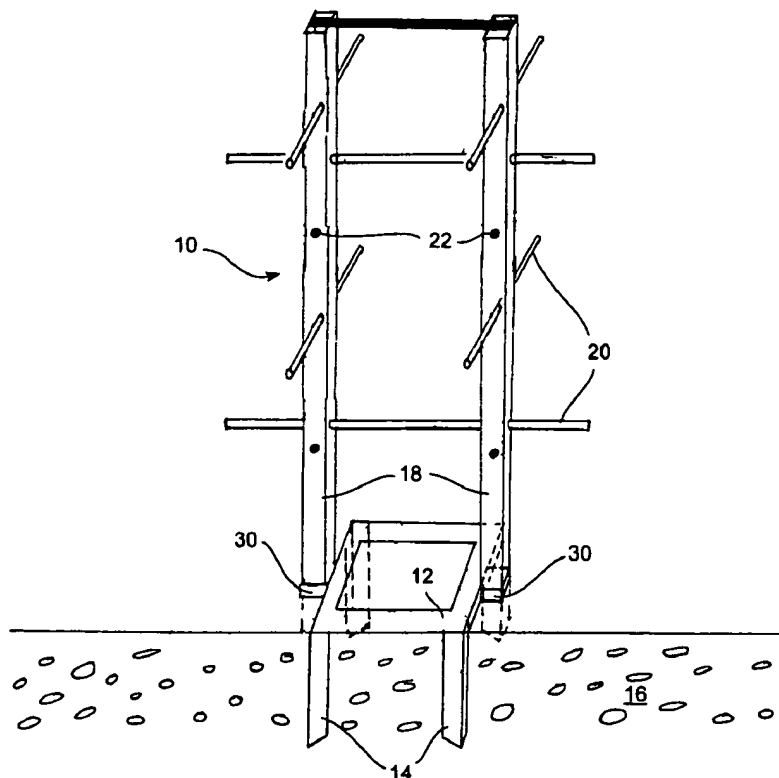
(51) Cl.Int.<sup>7</sup>/Int.Cl.<sup>7</sup> A01G 9/12

(71) Demandeur/Applicant:  
LAROCHE, ROBERT, CA

(72) Inventeur/Inventor:  
LAROCHE, ROBERT, CA

(54) Titre : STRUCTURE DE SUPPORT DE VEGETAUX

(54) Title: PLANT SUPPORT STRUCTURE



(57) Abrégé/Abstract:

A plant support structure having a strong base, stakes and strong vertical pillars.

## **ABSTRACT**

**A plant support structure having a strong base, stakes and strong vertical pillars.**

**PLANT SUPPORT STRUCTURE****BACKGROUND OF THE INVENTION :****Field of the invention :**

The invention relates generally to support structure but more particularly to a plant  
10 support structure.

**Background of the invention :**

Plants and more particularly garden plants such as tomato plants are not structurally  
15 strong enough by themselves to grow upright and since it is better, as far as sunlight  
exposure to have to plant stand upright in order to produce large red tomatos not  
affected by the soil or soil creatures which could mar the beauty of the fruit, a large  
number of such structures have been developped by inventors over the years to help  
the plant stand upright. Some of those structures are not very adaptable, others are  
20 rather complex to build while others are too fragile.

There is therefore a need for a better plant suport structure.

**SUMMARY OF THE INVENTION**

5 The present invention discloses a plant support structure having a strong base with stakes insertable into the ground and a pair of strong vertical pillars through which are inserted rods in a perpendicular fashion along the axis of the pillars.

It is therefore a first object of this invention to provide for a plant support structure having a strong stable base.

10

It is a second object of this invention to provide for an adaptable modular system that is easily changeable.

15

The foregoing and other objects, features, and advantages of this invention will become more readily apparent from the following detailed description of a preferred embodiment with reference to the accompanying drawings, wherein the preferred embodiment of the invention is shown and described, by way of examples. As will be realized, the invention is capable of other and different embodiments, and its several details are capable of modifications in various obvious respects, all without departing from the invention. Accordingly, the drawings and description are to be regarded as  
20 illustrative in nature, and not as restrictive.

25

**BRIEF DESCRIPTION OF THE PREFERRED EMBODIMENT**

**Fig. 1** Perspective elevation of the plant support structure.

5 **Fig. 2** Front elevation of the plant support structure.

**Fig. 3** Side elevation of the plant support structure.

**Fig. 4** Plan elevation of the plant support structure.

**DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENT**

10

A plant support structure (10) has a strong base (12) with stakes (14) insertable into the ground (16). A pair of strong vertical pillars (18) having bottom ends shaped like stakes are also inserted into the ground to insure strength and stability by passing through holders (30). The pillars have rods (20) inserted through them in a generally perpendicular fashion along the axis of the pillars (18) although any other angle could be used even if just for decorative purpose without departing from the scope of the invention. The rods can be inserted at various places along the pillars (18) where holes (22) are made. A top joining member (24) joins the two pillars (18) at their upper extremities by pressure inserting a dowel (26) into pre-drilled holes (28) situated at each tip of the pillars (18). No nails, screws or other types of mechanical fasteners that would otherwise damage the tip of the pillars (18) is necessary. In fact the plant support structure is designed to be easily dismantled at the end of the growing season, although the base can safely remain in the soil in a relatively permanent fashion.

15

20

25

**CLAIM :**

1. A plant support structure for holding plants comprising:

5 a base having stakes and holders;

a pair of vertical pillars through which are inserted rods along the axis of said pillars;

said rods being insertable through holes.

2. A plant support structure for holding plants as in claim 1 further comprising:

10 a top joining member joining said pillars by way of dowels pressure inserted into pre-drilled holes.

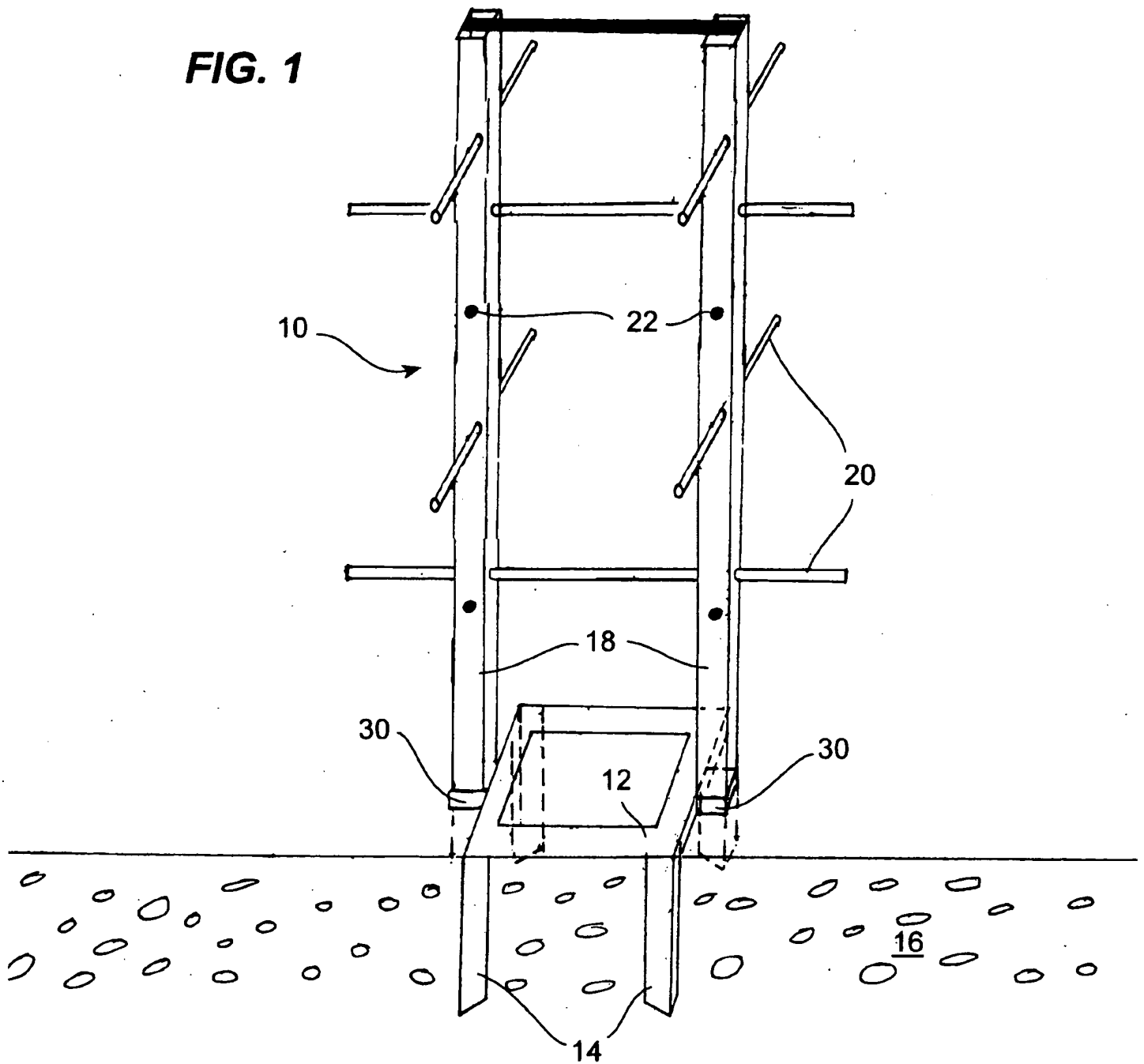
3. A plant support structure for holding plants as in claim 1 whereas:

said rods are inserted perpendicularly along the axis of said pillars.

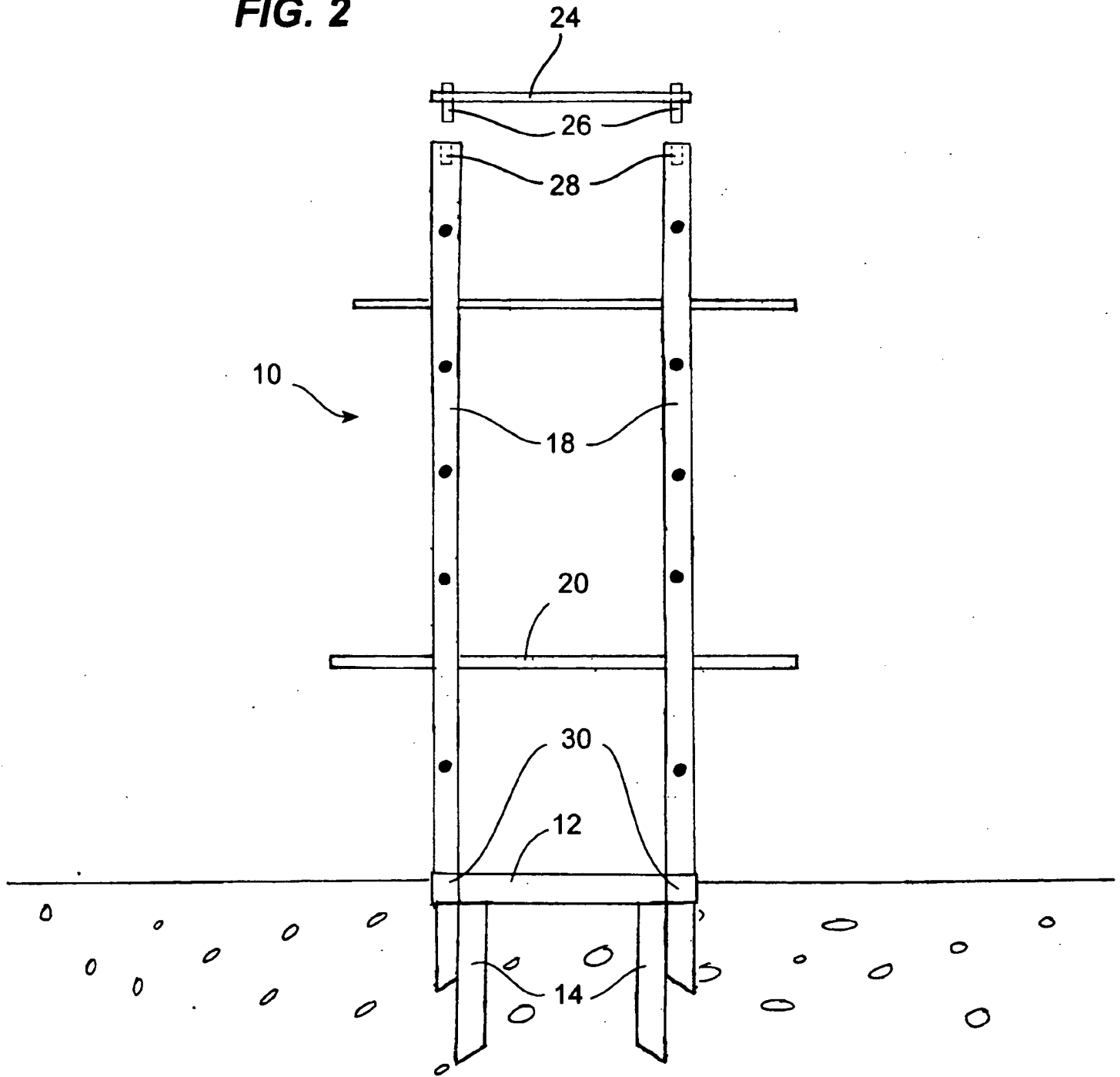
15

20

25

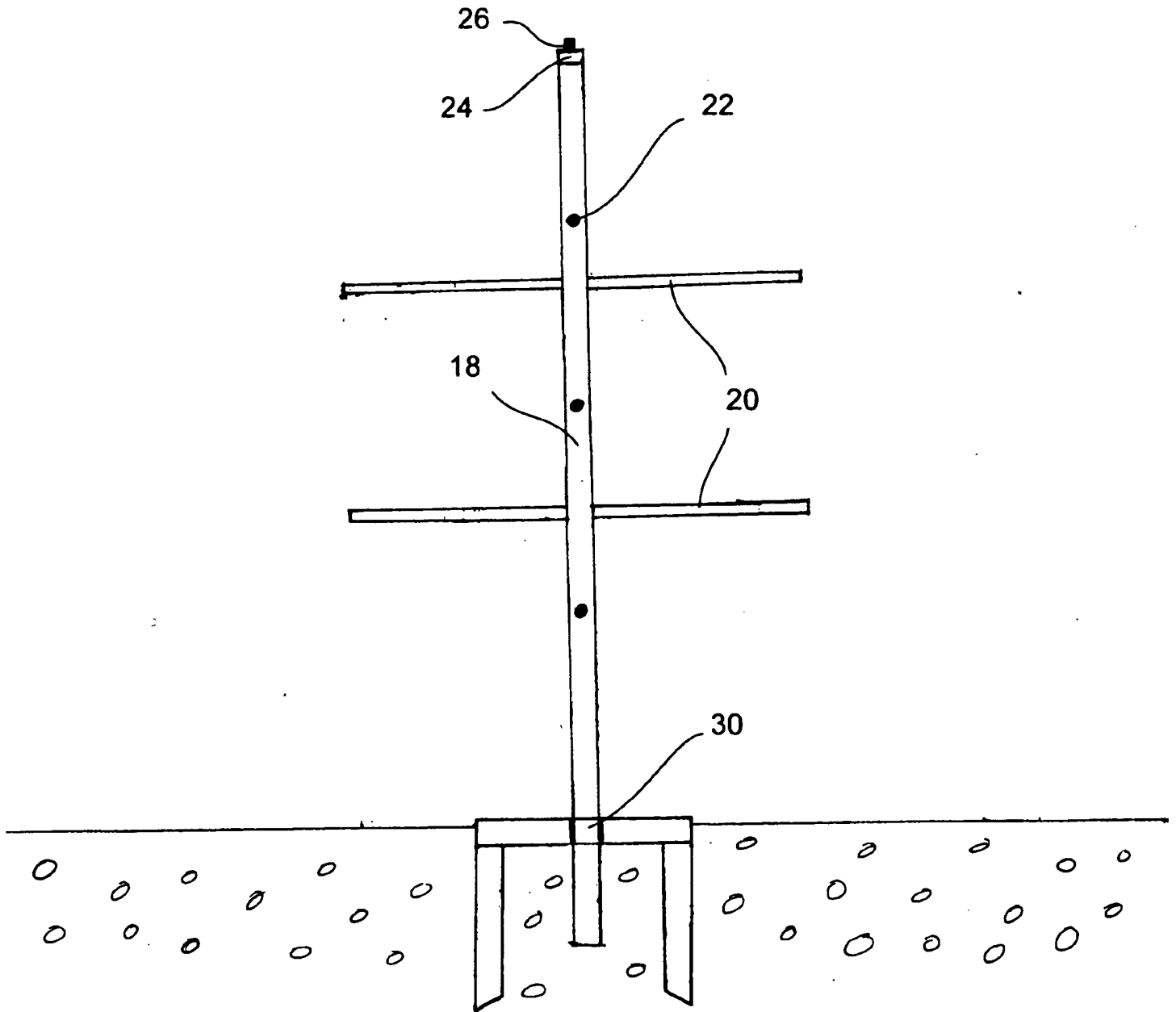
**FIG. 1**

**FIG. 2**





**FIG. 3**



**FIG. 4**

